IP-473 (20,111)

TO THE

RR/CSS-U -14 August 1956 Concurred: M/FM

X-4555 25X1A

25X1A

FERROUS HETALS IN THE SOVIET SIXTH FIVE-YEAR PLAN

Approved :

During the Sixth Five-Year Plan Soviet steel production is to rise from 45,300,000 metric tens in 1955 to 68,300,000 tens in 1960, an increase which approximates the present production of Great Britain. The USSR obviously intends to obtain sufficient steel to support the over-all industrial growth it has projected for 1956-1960. Although the industry's expansion is not a direct preparation for war, it greatly increases the USSR's war potential. These goals as likely to be met in view of the abundance of raw materials reserves, the experience gained during previous five-year plans, and the apparent margins of mafety built into the Sixth Five-Year Plan. (SECRET) (Prepared by ORR)

and the second

Approved For Release 2000/05/15 : CIA-RDP79T0104540013899

CIWA - PART III - 3rd DRAFT

14 August 1956 Concurred: H/FM

Approved :

FERRODS METALS IN THE SOVIET SIXYE PIVE-YEAR PLAN

25X1A

The Sixth Five-Year Plan for the Soviet iron and steel industry provides for the largest expansion program yet realized during a five-year period. Production of crude steel is scheduled to rise from 45,300, 000 metric tons in 1955 to 68, 300,000 in 1960, an increase which approximates the present production of Great Britain. Of the 23,000,000-ton increase to be obtained, the regime relies on continuing increases in production efficiency to furnish nearly half.

New capacity is to be been brought into production largely at existing plants. However construction is planned for Siberia and Kazakhstan, where, on the basis of the region's coal and iron ore reserves, the USSR plans to develop over the next 10 to 15 years an iron and steel center ranking third in size to the Ukraine and Urals. These DOW latter areas was account for 70 Sincerca & to 75 percent of the Munsian iron and steel output.

The USSR obviously intends to obtain sufficient steel to support the over-all industrial growth it has projected for 1956-1980. Although the industry's expansion is not a direct preparation for war, it greatly increases the USSE's EX war potential. The USSE is already the world's second largest steel producer. In 1956, production of crude steel was 17 percent of world output, 43 percent of that of the United States, and 72.5 percent of total production in the Simo-Soviet bloc.

The industry's major production goals are likely to be met in view of the abundance of raw materials reserves, the experience gained during previous five-year plans, and the apparent margins of safety built into the Sixth Five-Year Plan with respect to the production of iron ore, pig iron, and crude and finished steel.

Since the Soviet industry consistently operates at capacity, the production of 23,000,000 metric tons more crude steel in 1966 than in 1955 will require an expansion of similar magnitude in capacity. A concensus of estimates indicates that in the same period about 20,000,000 metric tons will be added to the present 116,000,000 metric tons of crude steel capacity in the United States, on this basis;

the USSR's plaumed acpacity in 1960 would equal 52 percent of that in the United States as compared with 41 percent in 1955. In absolute figures the USSR's capacity will be comparable with that of the United States in 1931.

Rolled Steel - The planned 17,400,000 increase of kayana tons in the annual rate of tetal rolled steel production includes a major expansion in ix flat rolled steel products. Soviet industry has long been deficient in these products. which are used largely in the production of consumer goods. Production is to be increased by installing a number of continuous sheet and strip mills. Soviet technicians have had little experience in building this type of mill, the first unit of Soviet design and manufacture having been installed only last year. Previously, the only mills of this kind in the USSR were two units purchased in the United States in the 1930's and one that was removed from Germany. The Soviets say they will raise the propertion of flat-rolled products during the next several fiveyear plans to 40 to 45 percent of total rolled steel production, similar to that in the United

States. It is doubtful, however,

if this will be done unless

consumer goods industries are

assigned a much higher priority

than they now receive.

Haw Materials - To support the expansion in steel output the USSR plans substantially increased production of iron are and other raw materials. Iron ore production is scheduled to increase from 71,900,000 metric tons in 1955 to 114,300,000 metric tons in 1960. Buch of the planned new iron ore capacity requires the provision of beneficiating facilities. The Soviets expect that by 1960 about xxxx two thirds of the commercial grade ore supply will be so processed, as compared with one third in 1955 and about one sixth in 1950. Although born increased of necessity, th benepaly a ficiating reflects main small decline in the quality of the USSR's area, which are generally of good quality and abundant. Furthermore, beneficiating has positive benefits such pr as increasing furnace productivity and lowering the rate of coke consumption. Similar measures are being taken by the US steel industry, although not on as

broad a scale.

Technology - Russian ironsteel-making
and massian technology in
general is on a par with that of
leading Western nations. In
putting new technological developments into practive, however, the USSE has concentrated
on certain segments of the industry and on a limited number
of plants. Emphasis has been
put on increasing the production
of pig iron and crude steel;
considerably less attention has
been given to rolling mill and
finishing line technology.

Major improvements have thus far been installed in a limited number of plants. The iron- and steel-making departments of the Magnitogorsk and Kuznetsk Combines, where advanced technology has been introduced, are as efficient and productive as the best units in the United States. Industry-wide productivity rates, however, are considerably lower than in the United States, where crude steel output per worker in 1955 was 163 tons, as compared with only 38 tons in the USSR. The large opportunities for improvement here make possible long

strides toward attaining the pure called forty the plan.

Low labor productivity and the extensive processing required for raw materials in the USSE suggest that Soviet steel production is no less expensive than in other major steel-producing countries. Relative to the United States, the principal advantage competitive min of the Soviet iron and steel industry appears to lie in its low wage rates. Soviet emphasis on use of advanced techniques to increase production from existing facilities appears to be a considered policy aimed at expanding output with a minimum of outlay. In some instances this will result in higher operating costs than would have been the case had additional facilities been provided.

Outlook for Plan Fulfillment - As in past plans major iron and steel production goals set for 1960 am likely to be met despite the probable underfulfillment of certain supporting programs in the Five-Year Plan. In the past this industry has consistently failed to complete its planned modernization and new construction programs. Blast furnace efficiency, scheduled to increase 30 percent in 1951-1955, improved only 22 per-Even more cent. serious failures

129 13 13 MEZ

during that period were shortfalls of 26,000,000 tons in the construction of new iron ore capacity and 4,800,000 tons (25 to 35 percent) in the installation of new rolling mill capacity. Such failures have not in the past prevented the industry from attaining planned increases in production. Output goals have been mot by scheduling maximum production from new and existing capacity and by continuing in service) inefficient facilities that otherwise would have been retired. Current.

plans appear to incorporate provisions for replacing obsolete facilities and possibly for creatisg reserve capacity-a cushion which could be abandoned if production targets are endangered. Hore additional capacity is provided for in the Plan than would be required to meet the 1990 output goals for pig from, crude steel, and rolled steel. In the case of crude steel, for example, the in enpacity combined increase im expected from increased efficiency and from new facilities is 26,600,000 tens-3,600,000 tons more than the planned increase in the annual rate of production.

if planned increases in efficiency materialize and if construction schedules are met completely, which appears unlikely on the basis of par performance, the industry will be in a position to meet production goals while replacing obsolete units and creating some reserve capacity. Mowever, a shortfall of nearly 15 percent in the planned expansion of crude steel capacity, although preventing the successful schievement of retirement and reserve size, would not bar the possibility of meeting production goals. (SECRED) (Prepared by ORR)

Approved For Release 2000/05/15: CMF PT 01049A001500280001-4

Office Memorandum • UNITED STATES GOVERNMENT

TO : Chief, St/PC

DATE: 27 June 1956

FROM : Acting Chief, St/PR

SUBJECT: Project No. 20.1116, Metals in the Sixth Soviet Five Year Plan

The due date on the above project is changed from 6 July 1956 to 27 July 1956.

Distribution:

Orig. - St/PC

1 - D/M

1 - M/FM

1 - M/NF 1 - CSS

SECRE

25X1A

2 _ St/PR Approved For Release 2000/05/15 : CIA-RDP79T01049A001500280001-4 St/PR/RR:jt:2803 (27 June 1956)

Approved For Release 2000/05/15 1CTA RDP7@T01049A001500280001-4

Office of the Chief, Economic Research of Research and Reports

Project Action Memorendum

Project No. 20.1116 Date: 16 June 1956

TITIE: Metals in the Sixth Soviet Five Year Plan

REQUESTER: OCT

STATEMENT OF THE PROBLEM AND TERMS OF REFERENCE:

Propers for CCI Weekly publication a summary of Soviet metal position and Sinth Five Year Plan aims. Comparative positions and effect on Soviet capabilities should be emphasized.

Terms of Reference:

Maximum use should be made of graphics for presenting relevant data. Graphics will be prepared from data furnished by concerned branches through CSS to OCI.

Article should be prepared with the general reader — neither a Soviet specialist nor an intelligence officer — in view.

RESPONSIBILITY :

TroApproved For Rel

			Men-hours	Due Deteg	Gormanianos (Initiala)
Action Division:	D/M H/FM		26	6 Jul 56	A STATE OF THE PARTY OF THE PAR
கிகப்பில் தெறித்திக்கும் இன்ற இதில் மூதி 🥮 கிறுவன் இபக்கைக்குவிக்குவல் விறுவரும்	MAIF		35 20	1 Jul 56	
Conwitting Branch	en: 1/T				
Staffat	St/PA	25X1A	•		Rit
• • • • • • • • • • • • • • • • • • •	255				HAP
Frincipal Apalys		×3165			A STATE OF THE STA

А<u>-</u><u>В</u>р<u>г</u>39Т01049А001500280001-4

This project will not delay completion of currently scheduled projects.